

# Material Safety Data Sheet

## Section I

Manufacturer's Name  
Coatings For Industry, Inc.

Emergency Response #  
1-800-535-5053

Address  
319 Township Line Road  
Souderton, Pa 18964

Non-Emergency #  
215-723-0919  
Trade Name & Synonyms  
Wearcoat 480 Part B

Product Class  
Epoxy Resin Hardener

HMIS Rating  
Health 2  
Fire 1  
Reactivity 1

## Section II - Hazardous Ingredients

	Abbr.	Weight %	TLV	PEL	CAS #
Benzyl alcohol	BZOH	40-70	n/e	n/e	100516
4,4'-Methylenebiscyclohexanamine		< 5	n/e	n/e	1761713
Trimethylhexamethylenediamine		<5	n/e	n/e	25620580
Isophorone diamine		<10	n/e	n/e	2855132
Aliphatic Amine		<5	n/e	n/e	*
Polyoxypropylenediamine		10-20	n/e	n/e	9046100
P-tertiarybutylphenol		<5	n/e	n/e	98544
Cycloaliphatic amine		<10			
Cycloaliphatic amine		<10	n/e	n/e	*
Cycloaliphatic amine		10-30	n/e	n/e	*

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) as established by the American Conference of Governmental Industry Hygienists. "STEL" indicated a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit". "n/e" indicates that no exposure limit has been established. An asterisk (\*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

## Section III - Physical Data

Boiling point ~~~~~>350  
Volatile % ~~~~~<1  
Evaporation Rate (butyl acetate=1)~<1  
Vapor Density (air=1)~>1  
Specific Gravity ~~~~~.99  
VOC~<10  
pH (5% solution or slurry in water):~11.5  
Percent solids by weight:~100  
Solubility in water:~Appreciable

#### **Section IV - Fire and Explosion Hazard Data**

Flash Point ~~~~~ > 200 degrees F.

Extinguishing Media ~~~~~ Foam, carbon dioxide, dry chemical or water.

#### Special Fire Fighting Procedures

Firefighters should wear self-contained breathing apparatus and full protective gear. Keep containers cool with water spray.

Unusual Fire & Explosion Hazards ~~ Personnel in vicinity and downwind should be evacuated. Water or foam may cause frothing. Sudden reaction and fire may result if mixed with oxidizing agent.

#### Hazardous product of combustion:

Oxides of carbon, oxides of nitrogen, ammonia. Toxic smoke and vapors may form during combustion.

#### **Section V - Health Hazard Data**

Primary routes of exposure: Skin contact, Skin absorption, Inhalation.

#### Symptoms of acute overexposure:

Skin: Corrosive, Severe irritation (defatting, itching, redness, blistering), pain, burns and permanent damage. Product is absorbed through the skin and may cause nausea, headache and general discomfort. Potential sensitizer.

Inhalation: Corrosive. Can cause irritation of respiratory tract and mucous membranes (nasal discharge, coughing, discomfort). Over exposure to fumes or vapors may cause lung injury. May cause nausea and vomiting. Inhalation of vapors, aerosols and mists may severely damage contacted tissue and produce scarring.

Eyes: Corrosive. Severe irritation (redness, swelling), pain or burns; may cause permanent eye injury (including blindness). Vapors can cause lacrimation, conjunctivitis, and corneal edema.

Ingestion: May cause burns of mouth, throat and stomach with abdominal and chest pains, nausea, vomiting, diarrhea, thirst, weakness and collapse.

Effects of chronic overexposure:

Repeated skin contact or inhalation may cause sensitization/dermatitis, with asthmatic or allergic symptoms on subsequent exposure (rash, defatting, nausea, headaches). Repeated or prolonged exposure may cause adverse respiratory effects (cough, tightness of chest, shortness of breath, dryness of nasal passages), eye effects.

Medical conditions which may be aggravated by exposure:

May aggravate existing skin disorders and allergies, eye disease, and respiratory conditions (i.e. bronchitis, emphysema, inflammatory or fibrotic respiratory disease). Repeated inhalation may cause lung injury.

Other effects:

Corneal edema may give rise to a perception of "blue haze" or "fog" around lights which is transient and has no known residual effect.

## **Section VII - Spill or Leak Procedures**

### **Steps to be taken in case material is released or spilled**

Ventilate area. Absorb spill with suitable absorbent material and place into a closed container.

For large spills, dike area and pump into closed containers. Prevent this material from entering waterways.

Wear protective equipment during cleanup.

### **Waste disposal method**

At this time, this material or its containers would not be considered hazardous wastes as defined under the federal RCRA regulations (40 CFR 261) if discarded. Care should be taken to ensure that the material or its containers are disposed of in an approved facility in accordance with current federal, state and local regulations.

For further information, contact your state or local waste agency or the United States Environmental Protection Agency's RCRA hotline (1-800-424-9346 or 202-382-3000).

## **Section VIII - Special Protection Information**

Respiratory Protection - Should be worn to avoid breathing spray mist, heated vapors or if TLV is exceeded.

Ventilation - Local exhaust and general ventilation recommended.

Protective Gloves - Chemical resistant plastic or rubber.

Eye Protection - Chemical goggles.

Other Protective Equipment - As required to prevent wetting skin or clothing.

## **Section IX - Special Precautions**

Precautions to be taken in handling and storage - This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Avoid contact with vapors or fumes.

Other Precautions - Wear protective equipment.

## **Section X-Toxicological Information**

### **Acute oral effects:**

LD50 (rat): >1000 mg/kg (estimate)

### **Acute inhalation effects:**

LC50 (rat): Not available

### **Subchronic effects:**

Not available

### **Acute dermal effects:**

LD50 (rabbit): >1000 mg/kg (estimate)

### **Eye irritation:**

Not available

### **Chronic effects:**

Components have caused allergic sensitization

in animals.

**Carcinogenicity, teratogenicity, and mutagenicity:**

Not available.

**Toxicological information on hazardous chemical constituents of this product:**

<b>Constituent</b>	<b>Oral LD50 (rat)</b>	<b>Dermal LD50 (rabbit)</b>	<b>Inhalation LC50 (rat, 4 hours)</b>
Benzyl alcohol	1230 mg/kg	2000 mg/kg	>2000 ppm
4,4"-Methylenebiscyclohexanamine	>625 mg/kg	>2110 mg/kg	>10 mg/l
Trimethylhexamthylenediamine	n/d	n/d	n/d
Isophorone diamine	n/d	n/d	n/d
Aliphatic Amine	n/d	n/d	n/d
Polyoxypropylenediamine	480-1100 mg/kg	760-2090 mg/kg	n/d
P-tertiarybutylphenol	3250 uL/kg	2520 uL/kg	>5600 mg/m3
Cycloaliphatic amine			
Cycloaliphatic amine	n/d	n/d	n/d
Cycloaliphatic amine	n/d	n/d	n/d

**Section XI- Supplemental Information**

Regulatory Information ~~~~~ None

SARA Section 313 Listed Ingredients ~ This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

D.O.T. Proper Shipping Name ~~~ Corrosive liquid, basic, organic, n.o.s.

Technical name~~~~~ISOPHORONEDIAMINE & POLAMINES

UN Number ~~~~~ UN3267

Packing group~~~~~III

D.O.T. Hazard Class ~~~~~ 8

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